



## Information about the subject

**Degree:** Bachelor of Science Degree in Dentistry

**Faculty:** Faculty of Medicine and Health Sciences

**Code:** 480505 **Name:** Bachelor's Thesis

**Credits:** 12,00 **ECTS Year:** 5 **Semester:** 1/2

**Module:** Module 6: Supervised Internship and Final Degree Project

**Subject Matter:** GRADUATION WORK **Type:** Final Degree Project

**Field of knowledge:** Health Sciences

**Department:** Dentistry

**Type of learning:** Classroom-based learning

**Languages in which it is taught:** English, Spanish

### Lecturer/-s:

485A	<u>Maria Fernanda Garzon Farinos</u> ( <b>Responsible Lecturer</b> )	fernanda.garzon@ucv.es
	<u>Alba Pallarés Serrano</u>	alba.pallares@ucv.es
	<u>Alicia Lanuza Garcia</u>	alicia.lanuza@ucv.es
	<u>Ana Sanchez Albero</u>	ANA.SANCHEZ@UCV.ES
	<u>Andrea Armengol Olivares</u>	andrea.armengol@ucv.es
	<u>Andrea Ruiz Hernandez</u>	andrea.ruiz@ucv.es
	<u>Antonio Pallares Sabater</u>	antonio.pallares@ucv.es



485A	<u>Blanca Gil Marqués</u>	blanca.gil@ucv.es
	<u>Carlos Javier Fuset Fernandez</u>	carlos.fuset@ucv.es
	<u>Carolina Larrazabal Moron</u>	carolina.larrazabal@ucv.es
	<u>Clara Guinot Barona</u>	clara.guinot@ucv.es
	<u>Clara Maria Ferrer Serrador</u>	cm.ferrer@ucv.es
	<u>Francisco Javier Puertas Cuesta</u>	fj.puertas@ucv.es
	<u>Francisco Jose Tarazona Santabalbina</u>	fj.tarazona@ucv.es
	<u>Giovanni Vella</u>	giovanni.vella@ucv.es
	<u>Javier Badenes Catalán</u>	javier.badenes@ucv.es
	<u>Javier Barberá Millán</u>	javier.barbera@ucv.es
	<u>Jesús Ángel Prieto Ruiz</u>	jesus.prieto@ucv.es
	<u>Laura Marques Martinez</u>	laura.marques@ucv.es
	<u>Luis Maria Ilzarbe Ripoll</u>	lm.ilzarbe@ucv.es
	<u>Manuel Monterde Hernandez</u>	manuel.monterde@ucv.es
	<u>Maria Carmona Santamaría</u>	maria.carmona@ucv.es
	<u>Maria Dolores Gomez Adrian</u>	mariadolores.gomez@ucv.es
	<u>Maria Jesus Vega Bello</u>	mj.vega@ucv.es
	<u>Maria Josefa Ferro De Farisato Touceda</u>	MJ.FERRO@UCV.ES
	<u>Maria Josep Albert Lopez</u>	mj.albert@ucv.es
	<u>Maria Miralles Ferragud</u>	maria.miralles@ucv.es
	<u>Maria Navarro Solera</u>	maria.solera@ucv.es



485A	<u>Mauricio Peretó Villaescusa</u>	mauricio.pereto@ucv.es
	<u>Monica Fernández Mafé</u>	monica.fernandez@ucv.es
	<u>Pablo Miguel Lahuerta Aranda</u>	pm.lahuerta@ucv.es
	<u>Ricardo Daniel Colombo Andrenacci</u>	rd.colombo@ucv.es
485GIQ	<u>Maria Fernanda Garzon Farinos (English Responsible Lecturer)</u>	fernanda.garzon@ucv.es
	<u>Agustina Muñoz Rodriguez</u>	agustina.munoz@ucv.es
	<u>Alberto Casino Alegre</u>	alberto.casino@ucv.es
	<u>Andrea Rubert Aparici</u>	andrea.rubert@ucv.es
	<u>Belen Vidal Cuñat</u>	belen.vidal@ucv.es
	<u>Carla Borrell Garcia</u>	carla.borrell@ucv.es
	<u>Carlos Aguilar González</u>	carlos.aguilar@ucv.es
	<u>Carlos Perez Roig</u>	carlos.proig@ucv.es
	<u>Esther Garcia Miralles</u>	esther.garcia@ucv.es
	<u>Francisco Javier Puertas Cuesta</u>	fj.puertas@ucv.es
	<u>Francisco Jose Tarazona Santabalbina</u>	fj.tarazona@ucv.es
	<u>Francisco Manu Visiedo Soriano</u>	fm.visiedo@ucv.es
	<u>Iciar Fatima Sanz-Orrio Soler</u>	iciar.sanz@ucv.es
	<u>Irene Tormo Gomez</u>	irene.tormo@ucv.es
	<u>Jose Juan Enciso Ripoll</u>	jj.enciso@ucv.es
	<u>Juan Ignacio Aura Tormos</u>	ji.aura@ucv.es
	<u>Julian Espinosa Giménez</u>	julian.espinosa@ucv.es



485GIQ	<u>Lucia Miralles Jorda</u>	lucia.miralles@ucv.es
	<u>Luis Estivalis Torrent</u>	LUIS.ESTIVALIS@UCV.ES
	<u>Marcela Cristina Ferrer Molina</u>	marcela.ferrer@ucv.es
	<u>Margarita Lourdes Argumosa Manresa</u>	margarita.argumosa@ucv.es
	<u>Maria Amparo Vila Caballer</u>	ma.vila@ucv.es
	<u>Paula Boo Gordillo</u>	paula.boo@ucv.es
	<u>Susana Muwaquet Rodriguez</u>	susana.muwaquet@ucv.es
	<u>Tawfiq Hijazi Alsadi</u>	tawfiq.hijazi@ucv.es



## Module organization

### Module 6: Supervised Internship and Final Degree Project

Subject Matter	ECTS	Subject	ECTS	Year/semester
PRACTICUM	24,00	Adult Comprehensive Dentistry	12,00	5/2
		Child Comprehensive Dentistry	12,00	5/2
GRADUATION WORK	12,00	Bachelor's Thesis	12,00	5/2

## Recommended knowledge

It is necessary to have passed 240 credits for the defense of the TFG.

## Prerequisites

La defensa pública del trabajo fin de Grado no podrá realizarse hasta no haber superado el 80 por 100 del total de los créditos de grado (300 ects).



## Learning outcomes

At the end of the course, the student must be able to prove that he/she has acquired the following learning outcomes:

- R1 Shows competence in the search and management of information.
- R2 Proves communication skills in the oral presentation of their work, before the director and the evaluation committee.
- R3 Proves capacity for synthesis, critical analysis of information, and organization.  
Autonomous work.
- R4 Demonstrates development of the necessary skills to practice the profession of dentist.



## Competencies

Depending on the learning outcomes, the competencies to which the subject contributes are (please score from 1 to 4, being 4 the highest score):

GENERAL	Weighting			
	1	2	3	4
CG1 I aCapacity for analysis and synthesis				X
CG2 I bOrganizational and planning skills				X
CG3 I cOral and written communication in the native language				X
CG23 SMotivation for quality				X
CG4 I dKnowledge of a foreign language			X	
CG14 FCritical Reasoning				X
CG5 I eComputer skills related to the field of study				X
CG15 FEthical commitment				X
CG6 I fInformation management capacity				X
CG16 SAutonomous learning				X
SPECIFIC	Weighting			
	1	2	3	4
CE A 1 Know the essential elements of the dental profession, including ethical principles and legal responsibilities.				X
CE A 2 Understand the importance of such principles for the benefit of the patient, society and the profession, with special attention to professional secrecy.				X



CE A 3 Identify the patient's concerns and expectations, as well as to communicate effectively and clearly, both orally and in writing, with patients, relatives, the media and other professionals.								X
CE A 4 Understand and recognize the social and psychological aspects relevant to the treatment of patients.								X
CE A 5 Know how to apply the principles of anxiety and stress management to oneself, to patients and to other members of the dental team.								X
CE A 6 Understand the importance of developing a professional practice with respect to patient autonomy, beliefs and culture.								X
CE A 7 Promote autonomous learning of new knowledge and techniques, as well as motivation for quality.								X
CE A 8 Know how to share information with other health professionals and to work as a team.								X
CE A 9 Understand the importance of maintaining and using records with patient information for subsequent analysis, preserving the confidentiality of the data.								X
CE A 10 Know and identify the psychological and physical problems derived from gender violence in order to train students in the prevention, early detection, assistance, and rehabilitation of the victims of this form of violence.							X	
CE B 1 Understand the basic biomedical sciences on which dentistry is based to ensure proper oral care.								X
CE B 1 Understand and recognize the normal structure and function of the stomatognathic system, at the molecular, cellular, tissue and organic level, in the different stages of life.								X
CE B 1 Understand and recognize the science of biomaterials essential for dental practice as well as the immediate management of possible allergies to them.								X
CE B 14 Know about general disease processes, including infection, inflammation, immune system disorders, degeneration, neoplasm, metabolic disorders and genetic disorders.								X
CE B 1 Be familiar with the general pathological features of diseases and disorders affecting organ systems, specifically those with oral impact.								X





CE B 1	Understand the fundamentals of action, indications and efficacy of drugs and other therapeutic interventions, knowing their contraindications, interactions, systemic effects and interactions on other organs, based on available scientific evidence.								X
CE B 1	Understand and recognize the principles of ergonomics and safety at work (including control of cross-infection, radiation protection and occupational and biological diseases).								X
CE B 1	Know, critically evaluate and know how to use clinical and biomedical information sources to obtain, organize, interpret and communicate scientific and health information.								X
CE B 1	Know the scientific method and have the critical capacity to value the established knowledge and the new information. Be able to formulate hypotheses, collect and critically evaluate information for the resolution of problems, following the scientific method.								X
CE C 2	Obtain and prepare a medical history containing all relevant information.								X
CE C 2	Knowing how to perform a complete oral examination, including the appropriate radiographic and complementary examination tests, as well as obtaining appropriate clinical references.								X
CE C 2	Be able to make an initial diagnostic judgement and establish a reasoned diagnostic strategy, being competent in the recognition of situations requiring urgent dental care.								X
CE C 2	Establish the diagnosis, prognosis and adequate therapeutic planning in all clinical areas of dentistry, being competent in the diagnosis, prognosis and elaboration of the dental treatment plan of the patient requiring special care, including medically compromised patients (such as diabetics, hypertensive, immunosuppressed, anticoagulated, among others) and patients with disabilities.								X
CE C 2	Recognize life-threatening situations and know how to perform basic life support maneuvers.								X
CE D 2	Know and apply the basic treatment of the most common oral pathology in patients of all ages. Therapeutic procedures should be based on the concept of minimum invasion and on a global and integrated approach to oral treatment.								X
CE D 2	Know how to plan and carry out multidisciplinary, sequential and integrated dental treatments of limited complexity in patients of all ages and conditions and patients requiring special care.								X



CE D 2 Plan and propose the appropriate preventive measures for each clinical situation.					X
CE D 2 Acquire clinical experience under proper supervision.					X
CE E 2 Recognize the determinants of oral health in the population, both genetic and lifestyle-dependent, demographic, environmental, social, economic, psychological and cultural.					X
CE E 3 Recognise the role of the dentist in actions to prevent and protect against oral diseases, as well as in the maintenance and promotion of health, both at individual and community level.					X
CE E 3 Know the National Health System, as well as the basic aspects of health legislation, clinical management and proper use of health resources, understanding the importance of the role of the dentist in the field of Primary Health Care.					X

TRANSVERSAL	Weighting			
	1	2	3	4
1. a. Analysis and synthesis skills				X
1. b. Organizational and planning capacity				X
1. c. Oral and written communication in the native language.				X
1. d. Knowledge of a foreign language				X
1. e. Computer skills				X
1. f. Information management capacity				X
1. g. Problem solving				X
1. h. Decision making				X
2. i. Teamwork		X		
2. j. Multidisciplinary teamwork		X		



2. k.	Work in an international context				X
2. l.	Interpersonal skills				X
2. m.	Recognition of diversity and multiculturalism		X		
2. n.	Critical Reasoning				X
2. o.	Ethical commitment				X
3. p.	Autonomous learning				X
3. q.	Adaptation to new situations				X
3. r.	Creativity				X
3. s.	Leadership				X
3. t.	Knowledge of other cultures and customs		X		
3. u.	Initiative and entrepreneurship				X
3. v.	Motivation for quality				X
3. w.	Sensitivity to environmental and socio-health issues				X



## Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
R1, R2, R3, R4	5,00%	POSTER: Presentation and defence of a scientific dissemination poster associated with the written Final Degree Project dissertation. Assessed by a board.
R1, R2, R3, R4	55,00%	FINAL DEGREE WRITTEN PROJECT: Written dissertation of Final Degree Project. Final production assessed by a board.
R1, R2, R3, R4	10,00%	FINAL DEGREE PROJECT DIRECTOR ASSESSMENT: Evaluation by means of a rubric of the tutoring of the work.
R1, R3, R4	5,00%	ATTENDANCE AND PARTICIPATION IN SEMINARS
R2	25,00%	ORAL PRESENTATION OF THE FINAL DEGREE PROJECT: Oral Defense of the Final Degree Project before a committee

### Observations

For the presentation and defense of the TFG, **the student must have passed 240 ECTS of the degree.**

The student will not be able to **access the oral presentation of the TFG if he/she has not obtained, at least, 50% of the grade, both in the percentages of:**

- WRITTEN WORK TFG.
- ATTENDANCE AND PARTICIPATION IN SEMINARS.
- EVALUATION OF THE DIRECTOR OF THE THFG.

The oral presentation will take place, in a public act, and will consist of:

- 10 minutes of oral defense.
- 5 minutes for questions from the examining board.

### CRITERIA FOR THE AWARDING OF HONORS:

According to article 22 of the Regulatory Regulations for the Evaluation and Grading of UCV



Subjects, the mention of "Matrícula de Honor" may be granted by the professor responsible for the subject to students who have obtained the grade of "Outstanding". The number of "Matrícula de Honor" mentions that may be awarded may not exceed five percent of the students included in the same official transcript, unless this is less than 20, in which case only one "Matrícula de Honor" may be awarded.

## MENTION OF DISTINCTION:

In accordance with the regulations governing the assessment and grading of subjects in force at UCV, the distinction of "Matrícula de Honor" (Honours with Distinction) may be awarded to students who have achieved a grade of 9.0 or higher. The number of "Matrículas de Honor" (Honours with Distinction) may not exceed five percent of the students enrolled in the group for the corresponding academic year, unless the number of enrolled students is fewer than 20, in which case a single "Matrícula de Honor" (Honours with Distinction) may be awarded. Exceptionally, these distinctions may be assigned globally across different groups of the same subject. Nevertheless, the total number of distinctions awarded will be the same as if they were assigned by group, but they may be distributed among all students based on a common criterion, regardless of the group to which they belong. The criteria for awarding "Matrícula de Honor" (Honours with Distinction) will be determined according to the guidelines stipulated by the professor responsible for the course, as detailed in the "Observations" section of the evaluation system in the course guide.

## Learning activities

The following methodologies will be used so that the students can achieve the learning outcomes of the subject:

- M6 Discussion and problem solving.
- M7 Mentoring: the student will receive personalised attention, when requested, from each teacher and his/her final degree project supervisor.
- M8 Oral presentations by students.
- M9 Group work: group work sessions supervised by the teacher. Knowledge building through interaction and activity of students.
- M12 Seminars, supervised monographic classes with shared participation.
- M13 Personal preparation of written texts, essays, problem solving, seminars.



## IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
<b>SEMINAR</b> M6, M9, M12, M13	R1, R4	40,00	1,60
<b>TUTORING</b> M7, M13	R1, R3, R4	10,00	0,40
<b>EVALUATION</b> M8, M13	R2, R3	2,00	0,08
<b>TOTAL</b>		<b>52,00</b>	<b>2,08</b>

## LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
<b>INDIVIDUAL WORK</b> M6, M7, M8, M9, M12, M13	R1, R2, R3, R4	248,00	9,92
<b>TOTAL</b>		<b>248,00</b>	<b>9,92</b>



## Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
BLOCK I: Introduction to Research Methodology	<ol style="list-style-type: none"><li>1. The scientific method.</li><li>2. Causality.</li><li>3. Hypothesis.</li><li>4. Study design.</li></ol>
BLOCK II: Bibliographic review	<ol style="list-style-type: none"><li>1. Sources of information in Health Sciences.</li><li>2. Methodology of the bibliographic search.</li><li>3. Search in Medical Databases.</li><li>4. Bibliographic references and citation systems: Vancouver style.</li></ol>
BLOCK III: Statistics	<ol style="list-style-type: none"><li>1. Use of Excel to tabulate data.</li><li>2. Description of a continuous variable (fStats Continuous Variable). Numerical description: mean, standard deviation, percentiles, interval grouping. Description Graphical description: box plot, histogram, normal probability plot. Confidence intervals and hypothesis tests for mean, variance and standard deviation.</li><li>3. Comparison of means. Two related populations (fStats Compare 2 Paired Means). Two independent populations (fStats Compare 2 Indep Means). More than two independent populations (fStats 1-way ANOVA, fStats 2-way ANOVA with balanced replicates).</li><li>4. Multiple Linear Regression (fSRegresionLinear).</li><li>5. Study of qualitative variables (fStats One Proportion, fStats 2 independent proportions, fStats Gi-2 Proportions, fStats Gi-2. Independence and Homogeneity, fStats Control Cases. Independent, fStats Compares 2 treatments).</li><li>6. Multiple Logistic Regression (fSLogistic Regression).</li><li>7. Minimum sample size (fStats Size).</li></ol>
BLOCK IV: How to present results and speak in public	<ol style="list-style-type: none"><li>1. Preparation of scientific reports and posters.</li><li>2. Presentation of results by oral communication.</li></ol>



## BLOCK V: Tutoring of the execution of the TFG

1. Conducting a literature search and preparing the introduction and bibliography. 2. Elaboration of a working hypothesis and objectives. 3. Collection of materials and execution of methods. 4. Compilation of results. 5. Interpretation of results and elaboration of a discussion. 6. Elaboration of conclusions. 7. Preparation of a summary. 8. Preparation of a final report of the TFG that contains all the previous sections. 9. Preparation of a poster on the TFG carried out. 10. Preparation of an oral presentation of the TFG.

## Temporary organization of learning:

Block of content	Number of sessions	Hours
BLOCK I: Introduction to Research Methodology	3,00	6,00
BLOCK II: Bibliographic review	2,00	4,00
BLOCK III: Statistics	8,00	16,00
BLOCK IV: How to present results and speak in public	2,00	4,00
BLOCK V: Tutoring of the execution of the TFG	2,00	4,00





## References

### BASIC BIBLIOGRAPHY:

1. Alpáñez López, M<sup>a</sup> del Carmen. Escritura biomédica: el estilo Vancouver: guía práctica para la citación bibliográfica en ciencias de la salud. Barcelona: Glosa; 2020.
2. Álvarez Marañón, G. El arte de presentar. Cómo planificar, estructurar, diseñar y exhibir presentaciones. Barcelona: Gestión 2000; 2012.
3. Argimón Pallás, José M. Métodos de investigación clínica y epidemiológica. 5<sup>a</sup> ed. Madrid: Elsevier; 2019.
4. Calatayud Sierra, J. Bioestadística en la investigación dental: Manual de bioestadística aplicada a la investigación en odontología. Madrid: Pues DL; 2003.
5. Castelló, M. (Coord.) Escribir y comunicar en contextos científicos y académicos. Conocimiento y estrategias. 1<sup>a</sup> ed. Barcelona: Graó; 2007.
6. Corriero Bravo A. Bibliografía y gestores bibliográficos: normas de Vancouver. Madrid: Formación Alcalá; 2022.
7. García García JA. Metodología de investigación, bioestadística y bioinformática en ciencias médicas y de la salud. 2<sup>a</sup> ed. México: McGraw Hill; 2014.
8. Gil Santos, L.; Lloris Carsí, J. M.; Barrios Pitarque, C. Cómo presentar una tesis doctoral o un trabajo de investigación científica. Valencia: Editorial UCV; 2012.
9. Hernández Sampieri R. Fundamentos de metodología de la investigación. 21<sup>a</sup> ed. Madrid: McGraw-Hill; 2020.
10. Higgins JPT et al. (eds.). Cochrane handbook for systematic reviews of interventions. Hoboken, NJ: Wiley-Blackwell; 2019.
11. Ramón Torrell, J.M. Métodos de investigación en odontología. Barcelona: Masson; 2000.
12. Serrano Gallardo P. Trabajo Fin de Grado en Ciencias de la Salud. Madrid: DAE; 2012.
13. Straus SE. Medicina basada en la Evidencia: cómo practicar y enseñar la MBE. 5<sup>a</sup> ed. Madrid: Elsevier España; 2019.

### COMPLEMENTARY BIBLIOGRAPHY:

1. Hernández Sampieri R, Fernández Collado C, Baptista Lucio P, García Espejo I, Limón Cano S. Metodología de la investigación. Mexico: MacGraw-Hill; 2010.
2. Serés E, Rosich L, Bosch F. Presentaciones orales en biomedicina. Barcelona: Fundación Dr. Antonio Esteve; 2010.